Installation of a Video Conferencing System in the DESY Accelerator Control Room

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Objectives:

In future, the accelerators TTF (DESY), A0 (Fermilab) und ATF (KEK) (?) will be operated completely or partially from remote sites. For this purpose, the DESY accelerator control room has to be equipped with a modern video conferencing system in order to allow

- a remote operation in the area of the TTF operation consoles,
- a remote operation in the area of the A0 (ATF?) operation consoles,
- a common shift handing-over meeting or other meetings with remote partners.

It has to be considered that.

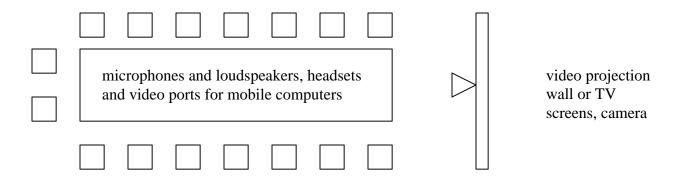
- the impression of a common control room and a common working atmosphere with respect to audio and video performance can be generated,
- the video conferencing systems at the meeting table and in the console areas can be operated separately,
- novel and internet-based video conferencing software will be compatible with the equipment to be installed.

Tasks:

- 1. Provide the necessary video-conferencing equipment at the meeting table in the DESY accelerator control room:
 - o Integrate the video projectors into the video-conferencing system; do not transmit captured images of projected video images.
 - o Transmit / Receive up to 2 images simultaneously (1 computer display, 1 camera image of the meeting table).
 - O Display up to 4 video images (video projection wall or TV screens) simultaneously (2 incoming images, 2 outgoing images); the outgoing images can be smaller in size.
 - o Cameras:
 - Install 1 camera covering the meeting table and looking from the front.
 - Install 1 camera to capture paper documents at the table.
 - o Install microphones at the table and at the ceiling; install loudspeakers at the ceiling; provide the infrastructure for wireless headsets.
 - o Provide video ports for mobile computers.

- 2. Provide the necessary video-conferencing equipment in the area of the TTF consoles in the DESY accelerator control room (2 working areas of 10 consoles each, a console consists of 2 screens stacked on top of each other)
 - o It must be possible to operate the 2 working areas (left quarter and right quarter of the TTF half-round) separately.
 - o Transmit / Receive up to 2 images simultaneously (1 computer display, 1 camera image of the working area) per working area.
 - O Display up to 4 video images (video overhead back-projection wall or TV screens) simultaneously (2 incoming images, 2 outgoing images) per working area; the outgoing images can be smaller in size.
 - o Install 2 cameras per working area looking from the front.
 - o Provide the infrastructure for wireless headsets; room loudspeakers will not be installed.
 - o Provide a switchboard to select a computer screen and the captured image of the nearest camera to be transmitted.
- 3. Provide the necessary video-conferencing equipment in the area of the A0 (ATF?) consoles (3 PC workstations) in the DESY accelerator control room:
 - o Use the desktop video conferencing system (WEB-cam, headset, Microsoft NetNeeting software, etc) already installed.





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